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1 CONVERT: a high level translation definition language for data conversion

Nan C. Shu, Barron C. Housel, Vincent Y. Lum

October 1975 **Communications of the ACM**, Volume 18 Issue 10

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a high level and nonprocedural translation definition language, CONVERT, which provides very powerful and highly flexible data restructuring capabilities. Its design is based on the simple underlying concept of a form which enables the users to visualize the translation processes, and thus makes data translation a much simpler task. "CONVERT" has been chosen for conveying the purpose of the language and should not be confused with any other langua ...

Keywords: data conversion, data restructuring, data translation, database reorganization, nonprocedural languages, programming languages, translation definition, utility program

2 Data translation: DSCL: a Data Specification and Conversion Language for networks

G. Michael Schneider

May 1975 **Proceedings of the 1975 ACM SIGMOD international conference on Management of data SIGMOD '75**

Publisher: ACM Press

Full text available: pdf(851.09 KB) Additional Information: full citation, abstract, references, citings

The rapid growth of large, heterogeneous, resource-sharing computer networks has created a serious problem in the sharing of information between incompatible systems. These incompatibilities can be categorized as either physical or logical in nature. Physical incompatibilities are problems caused by the way that the individual binary digits, regardless of what information they represent, are generated or stored internally. This would include character, word, and record size differences, blocking ...

3 From system F to typed assembly language

Greg Morrisett, David Walker, Karl Crary, Neal Glew

May 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(483.91 KB) Additional Information: full citation, abstract, references, citings, index terms

We motivate the design of typed assembly language (TAL) and present a type-preserving ttranslation from Systemn F to TAL. The typed assembly language we pressent is based on a conventional RISC assembly language, but its static type sytem provides support for enforcing high-level language abstratctions, such as closures, tuples, and user-defined abstract data types. The type system ensures that well-typed programs cannot violatet these abstractionsl In addition, the typing constructs admit ...

Keywords: certified code, closure conversion, secure extensible systems, type-directed compilation, typed assembly language, typed intermediate languages

4 Fully abstract translations between functional languages

Jon G. Riecke

January 1991 **Proceedings of the 18th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '91**

Publisher: ACM Press

Full text available: pdf(898.90 KB) Additional Information: full citation, references, citings, index terms

5 Translation of Decision Tables

Udo W. Pooch

June 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(2.10 MB) Additional Information: full citation, references, citings, index terms

6 Efficient and safe-for-space closure conversion

Zhong Shao, Andrew W. Appel

January 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(336.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Modern compilers often implement function calls (or returns) in two steps: first, a "closure" environment is properly installed to provide access for free variables in the target program fragment; second, the contro l is transferred to the target by a "jump with arguments (for results)." Closure conversion—which decides where and how to represent closures at runtime—is a crucial step in the compilation of functional languages. This paper presents a new alg ...

Keywords: callee-save registers, closure conversion, closure representation, compiler optimization, flow analysis, heap-based compilation, space safety

7 Typed closure conversion

Yasuhiko Minamide, Greg Morrisett, Robert Harper

January 1996 **Proceedings of the 23rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '96**

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms

8 Automatic translation of FORTRAN programs to vector form

Randy Allen, Ken Kennedy
October 1987 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 9 Issue 4
Publisher: ACM Press

Full text available: pdf(3.14 MB) Additional Information: full citation, abstract, references, citings, index terms

The recent success of vector computers such as the Cray-1 and array processors such as those manufactured by Floating Point Systems has increased interest in making vector operations available to the FORTRAN programmer. The FORTRAN standards committee is currently considering a successor to FORTRAN 77, usually called FORTRAN 8x, that will permit the programmer to explicitly specify vector and array operations. Although FORTRAN 8x will make it convenient to specify explicit vector ...

9 Informatics: program language: Translating interactive computer dialogues from ideographic to alphabetic languages

Ian H. Witten
September 1980 **Proceedings of the 8th conference on Computational linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(879.60 KB) Additional Information: full citation, references

10 Conversion technology, an assessment

James P. Fry
July 1981 **ACM SIGMIS Database , ACM SIGMOD Record**, Volume 12,13 , 12 Issue 4,1 , 2
Publisher: ACM Press
Full text available: pdf(2.36 MB) Additional Information: full citation, references

11 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2 CASCON '92**
Publisher: IBM Press
Full text available: pdf(4.52 MB) Additional Information: full citation, abstract, references, citings

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

12 A semi-automatic data base translation system for achieving data sharing in a network environment

Stanley Y.W. Su, Herman Lam
May 1974 **Proceedings of the 1974 ACM SIGFIDET (now SIGMOD) workshop on Data description, access and control FIDET '74**
Publisher: ACM Press
Full text available: pdf(915.70 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper deals with the problems of data base translation for achieving data sharing

through a computer network. A semiautomatic data base translation procedure and its prototype implementation are described. The procedure takes advantage of data conversion capabilities already existing in programming languages and I/O control systems and of man-machine interaction to achieve data base translation tasks. The user of one system is allowed to browse, retrieve, edit, format and restructure t ...

Keywords: Computer network application, Data base translation, Man-machine interaction, On-line system.

13 Data translation: A logical-level approach to data base conversion

Arie Shoshani

May 1975 **Proceedings of the 1975 ACM SIGMOD international conference on Management of data SIGMOD '75**

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings

In this paper we describe an ongoing project which is addressing the problem of converting and transferring data bases among disparate data management systems (DMSs). The difficulties in converting a data base from one DMS to another stem from the fact that data base structures are system and application dependent. As a result, data base structures embed constraints of three types: (1) logical-level constraints, such as hierarchies, networks, size and type of fields; (2) storage-level constraint ...

14 Modeling languages versus matrix generators for linear programming

Robert Fourer

June 1983 **ACM Transactions on Mathematical Software (TOMS)**, Volume 9 Issue 2

Publisher: ACM Press

Full text available: pdf(2.86 MB) Additional Information: full citation, references, citings, index terms

15 Modeling software tools with ICON

O. R. Fonorow

April 1988 **Proceedings of the 10th international conference on Software engineering ICSE '88**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.88 MB) Additional Information: full citation, abstract, references, index terms

This paper describes a new software test automation tool, a powerful new programming language, and the software development process that resulted when these tools were combined. A small development team of software developers and potential customers devised the unconventional process to meet a short deadline. The process produced an operational prototype or model of the entire software system that customers were able to use during the time it was being developed.

16 A Translator-Oriented Symbolic Programming Language

A. A. Grau

October 1962 **Journal of the ACM (JACM)**, Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(445.76 KB) Additional Information: full citation, references, citings, index terms

17 Denotational semantics for "natural" language question-answering programs

Michael G. Main, David B. Benson

January 1983 **Computational Linguistics**, Volume 9 Issue 1

Publisher: MIT Press
Full text available: pdf(968.11 KB) Publisher Site Additional Information: full citation, abstract, references

Scott-Strachey style denotational semantics is proposed as a suitable means of communicating the specification of "natural" language question answerers to computer programmers and software engineers. The method is exemplified by a simple question answerer communicating with a small data base. This example is partly based on treatment of fragments of English by Montague. Emphasis is placed on the semantic interpretation of questions. The "meaning" of a question is taken as a function from the set ...

18 A FORTRAN IV to QuickBASIC translator
Rizaldo B. Caringal, Phan Minh Dung
February 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 2
Publisher: ACM Press
Full text available: pdf(926.64 KB) Additional Information: full citation, abstract, index terms

This paper describes the design and implementation of an automatic translator from standard FORTRAN IV to QuickBASIC, a structured form of the programming language BASIC. The translator makes two passes on the input program before finally generating the translated program. The converter not only performs lexical, syntactic and limited forms of semantic analyses on the source program, but it also recovers from any errors encountered. It was implemented using the C programming language in the Disk ...

19 A graphical programming environment in Ada
Jorge L. Diaz-Herrera, Shawna C. Gregory
March 1986 **Proceedings of the third annual Washington Ada symposium on Ada: Ada use in focus : practical lessons in perspective WADAS '86**
Publisher: ACM Press
Full text available: pdf(632.20 KB) Additional Information: full citation, references, citings

20 Answering English questions by computer: a survey
R. F. Simmons
January 1965 **Communications of the ACM**, Volume 8 Issue 1
Publisher: ACM Press
Full text available: pdf(2.79 MB) Additional Information: full citation, references, citings, index terms

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RE Filman - ICSE Workshop on Advanced Separation of Concerns, 2001 - riacs.edu
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A Felty - ... International Workshop on Extensions of Logic **Programming**, 1991 - eiti.uottawa.ca
... **programming language** contains an implementation of the simply-typed lambda calculus including - **conversion** and higher-order unication. In addition, **universal** ...
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T Schulze, S Strassburger, U Klein - SIMULATION, 1999 - intl-sim.sagepub.com
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EW Reigel, HW Lawson - ACM SIGPLAN Notices, 1974 - portal.acm.org
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these character- istics accurately describe a **Programming Language** in a ...
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EA Rusis - US Patent 5,339,434, 1994 - Google Patents
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R Glück, Y Kawada, T Hashimoto - Proceedings of the 2003 ACM SIGPLAN workshop on Partial ..., 2003 - portal.acm.org
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